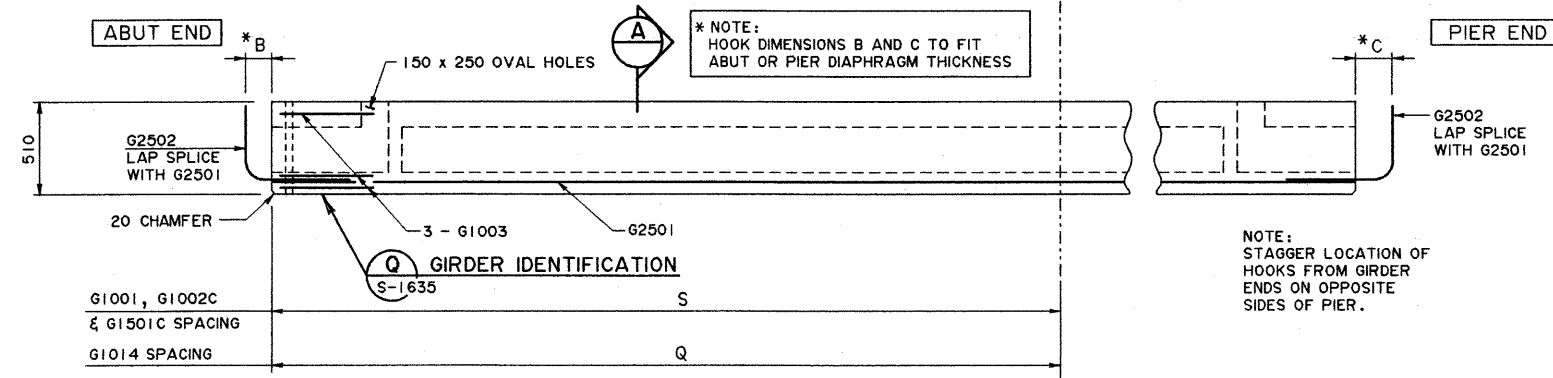
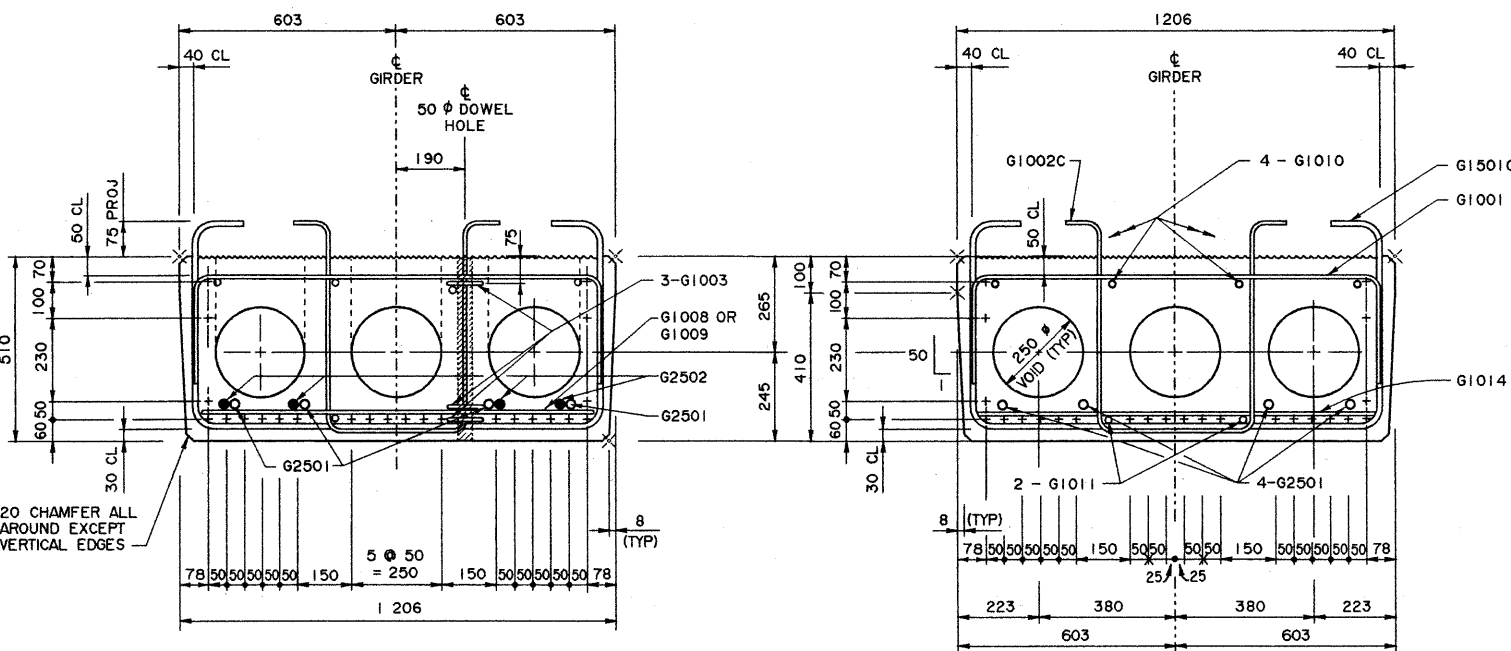


PLAN
1:20



ELEVATION
1:20



B SECTION
1:10

ALL POSSIBLE STRAND LOCATIONS HAVE BEEN MARKED. SEE TABLE FOR THE NUMBER AND LOCATION OF STRANDS REQ'D FOR EACH GIRDER LENGTH

A SECTION
1:10

BAR LIST: INTERIOR GIRDER

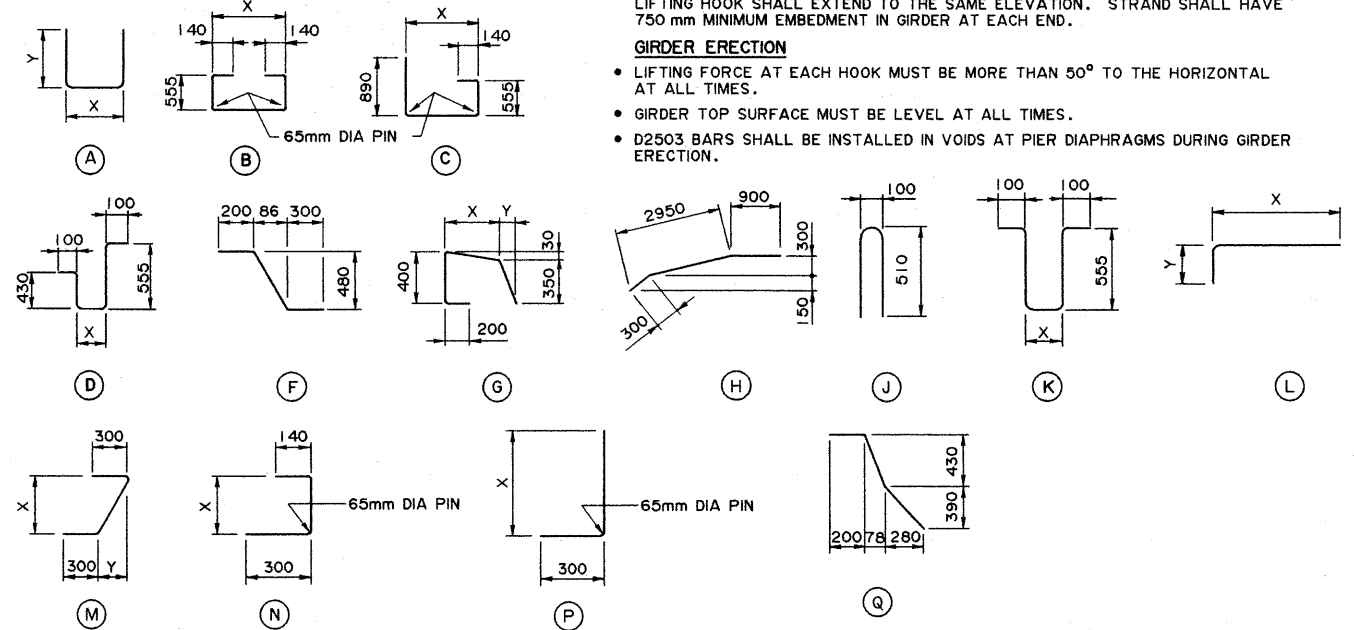
MARK	SIZE	TYPE	X	Y	LENGTH
G1001	10	A	1125	300	1725
G1002C	10	K	380		1690
G1003	10	J			1080
G1008	10	A	1000	300	1600
G1009	10	STR			950
G1010	10	STR			FULL LENGTH OF GIRDER
G1011	10	STR			FULL LENGTH OF GIRDER
G1014	10	STR			1100
G1501C	15	B	1125		2515
G2501	25	STR			FULL LENGTH OF GIRDER
G2502	25	L	1500	400	1900

NOTE: POSTSCRIPT LETTER 'C' ON MARK NUMBERS DENOTES EPOXY COATED BARS.

(E) DENOTES BARS FOR ABUTMENT END ONLY

BAR TYPES (FOR ALL GIRDERS)

(ALL BAR DIMENSIONS ARE OUT TO OUT)



GIRDER LENGTH	THEORETICAL GIRDER WEIGHT (tonnes) INTERIOR/CURB	FORCE PER STRAND (kN) INITIAL/FINAL	LIFT HOOK A (mm)	STRAND PATTERN (N = TOTAL NO. OF STRANDS)	DEBONDED STRANDS (ND = NO. OF DEBONDED STRANDS) (D = DEBONDED LENGTH FROM GIRDER END, mm)	STIRRUP SPACING S (mm)	G1014 SPACING Q (mm)
8m	7.6/12.6	129/113	1000	N=12 + + + + + + + + + + + + + + +	ND=0	50, 2Ø75=150, 3Ø100=300, 6Ø150=900, 4Ø250=1000, 3Ø300=900, 2Ø350=700	500 2Ø1750
10m	9.5/15.8	129/110	1200	N=16 + + + + + + + + + + + + + + +	ND=0	50, 2Ø75=150, 3Ø100=300, 9Ø150=900, 3Ø250=750, 6Ø300=1800, 3Ø350=1050	500 2Ø2250
12m	11.4/19.0	129/108	1500	N=20 + + + + + + + + + + + + + + +	ND=4, D=1100	50, 2Ø75=150, 3Ø100=300, 9Ø150=1350, 6Ø200=1200, 4Ø300=1200, 5Ø350=1750	500 2Ø2200 1100
14m	13.3/22.1	129/106	1500	N=24 + + + + + + + + + + + + + + +	ND=6, D=1400	50, 2Ø75=150, 3Ø100=300, 11Ø150=1650, 6Ø200=1200, 3Ø250=750, 5Ø300=1500, 4Ø350=1400	500 2Ø2200 2100

GENERAL NOTES

PRECAST GIRDERS

- CONCRETE FOR GIRDERS SHALL CONTAIN SILICA FUME AND BE MADE OF LIGHTWEIGHT COARSE AGGREGATE AND NATURAL SAND FINES. UNIT WEIGHT OF SEMI-LIGHTWEIGHT CONCRETE SHALL BE 1920 kg/m³.
- CONCRETE FOR GIRDERS SHALL HAVE A 28 DAY STRENGTH OF 45 MPa AND A RELEASE STRENGTH OF 28 MPa.
- CONCRETE FOR CURBS SHALL BE STANDARD WEIGHT CONCRETE WITH A 28 DAY STRENGTH OF 45 MPa.
- PRESTRESSING STEEL SHALL BE 13 Ø, 7 WIRE LOW RELAXATION STRAND (fpu = 1860 MPa).
- REINFORCING STEEL SHALL BE GRADE 400 (NO TACK WELDING OF STIRRUPS ALLOWED).
- FOR SKEW END DETAILS, SEE DWG. S-1635.

GIRDER FABRICATION

- GIRDERS SHALL CONFORM TO THE CURRENT REQUIREMENTS OF THE SPECIFICATIONS FOR BRIDGE CONSTRUCTION SECTION 7 - PRECAST CONCRETE UNITS.
- CURBS FOR EXTERIOR GIRDERS SHALL BE PLANT CAST AFTER RELEASE OF STRANDS.
- SANDBLAST ROUGHENING IS REQUIRED ON ALL GIRDER ENDS AND FIELD CAST DIAPHRAGM AREAS OF 250 Ø VOIDS.
- SEE DRAWING S-1632 FOR GIRDER FINISHES.
- PROVIDE 2 - 13 Ø, 7 WIRE STRANDS PER LIFTING HOOK FOR INTERIOR GIRDERS. LIFTING HOOKS SHALL EXTEND MINIMUM 75 mm ABOVE TOP OF GIRDER. STRAND SHALL HAVE 750 mm MINIMUM EMBEDMENT IN GIRDER AT EACH END.
- PROVIDE 3 - 13 Ø, 7 WIRE STRANDS PER LIFTING HOOK FOR CURB GIRDERS. LIFTING HOOKS SHALL EXTEND MINIMUM 75 mm ABOVE TOP OF CURB. DECK SIDE LIFTING HOOK SHALL EXTEND TO THE SAME ELEVATION. STRAND SHALL HAVE 750 mm MINIMUM EMBEDMENT IN GIRDER AT EACH END.

GIRDER ERECTION

- LIFTING FORCE AT EACH HOOK MUST BE MORE THAN 50° TO THE HORIZONTAL AT ALL TIMES.
- GIRDER TOP SURFACE MUST BE LEVEL AT ALL TIMES.
- D2503 BARS SHALL BE INSTALLED IN VOIDS AT PIER DIAPHRAGMS DURING GIRDER ERECTION.

• FOR ADDITIONAL GENERAL NOTES, SEE DWG. S-1630

SUPERSEDED BY 5-1633
DATE: 2000-09-25 BY REV ON SHEET 2

APPROVED
Alta Khan
EXECUTIVE DIRECTOR
DATE: November 19, 1999

Alberta TRANSPORTATION AND UTILITIES
TECHNICAL STANDARDS BRANCH
STANDARD SCC COMPOSITE BRIDGES
INTERIOR GIRDER

REV	DATE	REVISIONS	BY	DESIGNED	DRAWN	DATE	CHECKED	DATE	STREAM	LOCATION	HIGHWAY	FILE	SHEET	DRAWING
1				RY	WJW	98-08-21	CTC	98-11-13					4 OF 7	S-1633